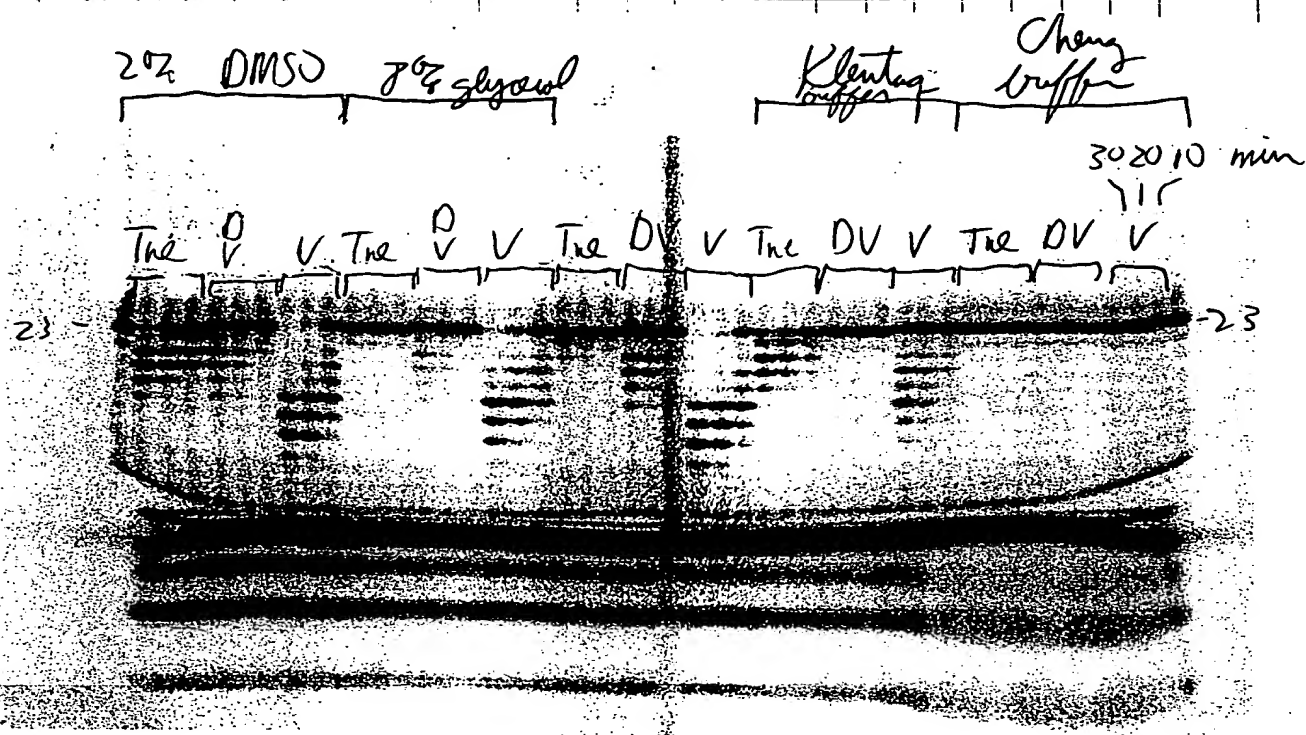


From Page No. _____



Result.

To Page

Witnessed & Understood by me,

Deena Polay

Date

11/29/94

Invented by

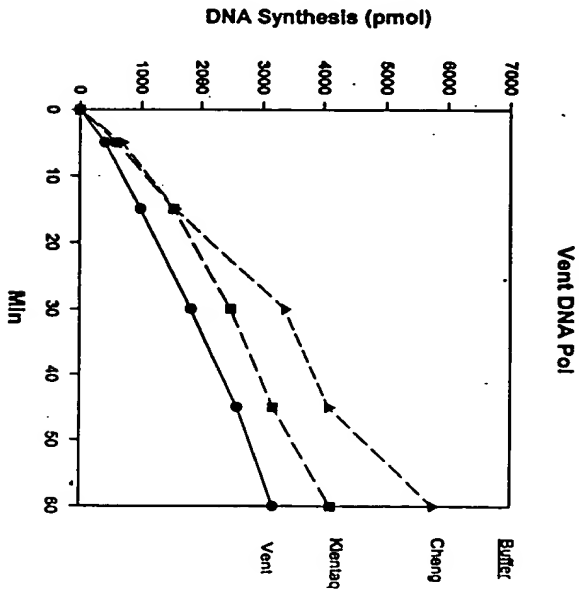
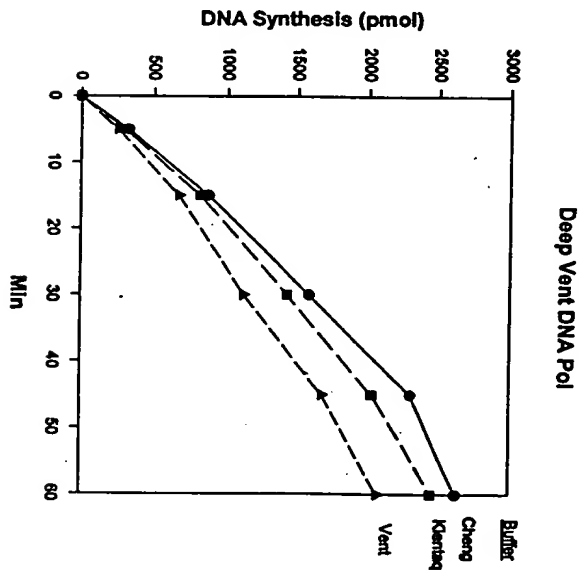
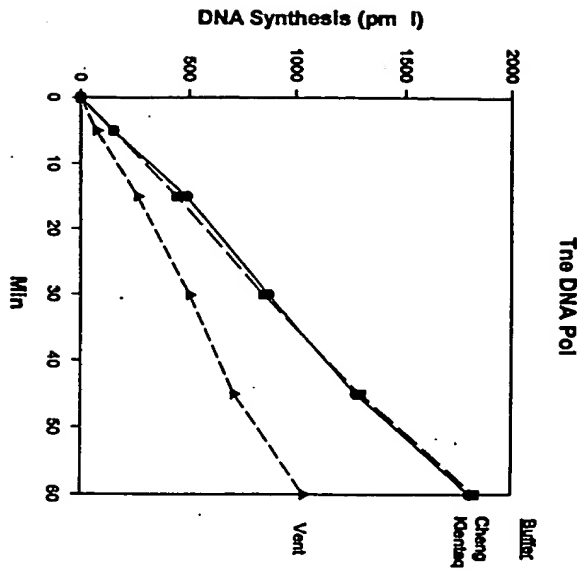
Record d by

Date

11-5-94

From Page No. _____

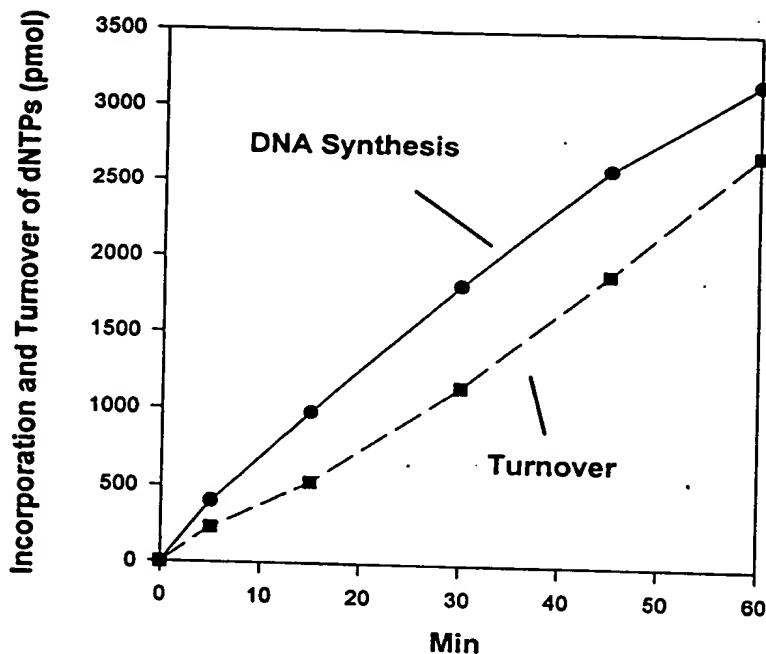
20% DMSO		70% glycerol		Klentag buffers		Cheng buffer	
						Tissue pH 8.7	
						Trio-HCl pH 9.1	
						K OH Ac pH 8.7	
						K el	
						NH ₄) ₂ SO ₄	
						Mg(OAc) ₂	
						Mg SO ₄	
						DMSO	
						Tissue 20/80	
						glycerol	
						same strength	
Vent		80%		85		20 mM	
Deep vent		105		50 mM		10	
Tie		82		20 mM		10	
		0.10% from top				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
		0.10%				10	
		1				10	
		50				10	
</							



In each case, DNA synthesis is lower in
 Primer degradation was highest in Vent

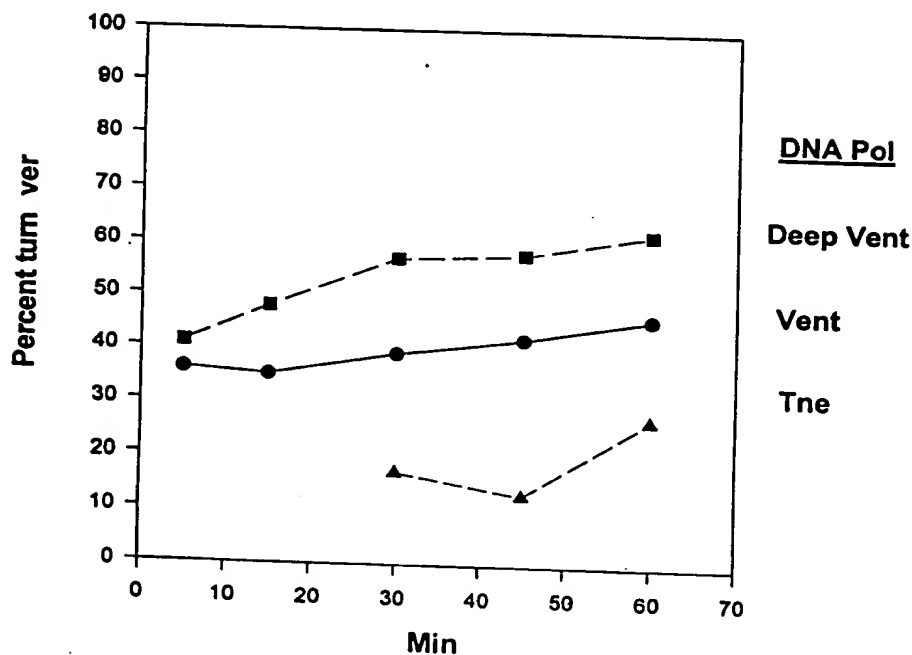
got Turnover
 by DNA synthesis
 ↓ below

Vent DNA Pol in Vent Buffer



DNA synthesis
and turnover
to JUMP

Activity in Vent Buffer



Percent turnover
turnover
incorporation + turnover

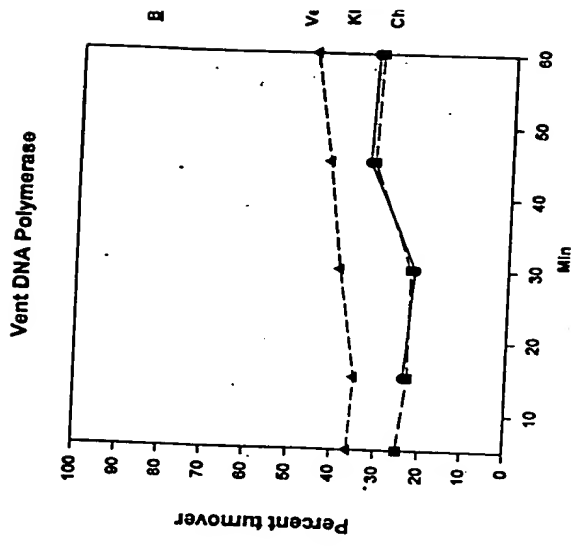
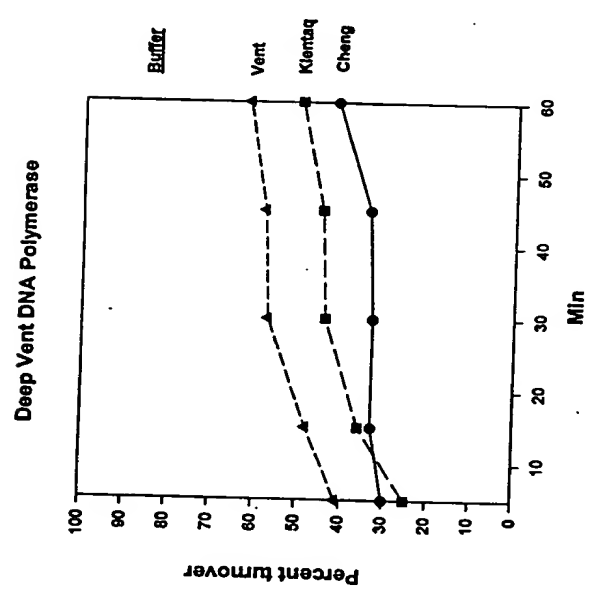
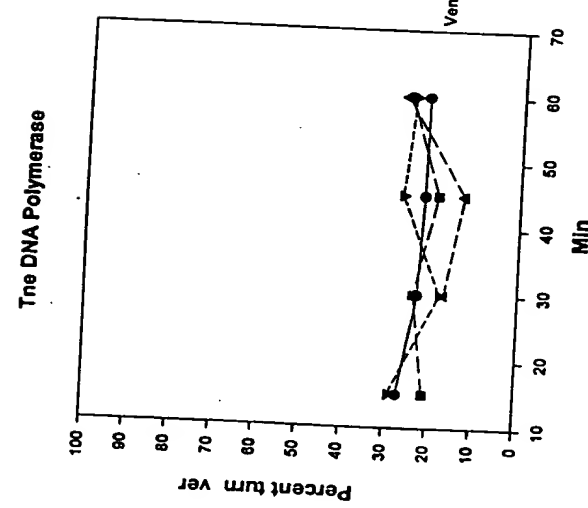
Deep Vent has
higher turnover
than Vent as
expected. Tne
is ~2x lower
than Vent and
Deep Vent

Witnessed & Understood by me,
Deanna Polcup

Date
 11/29/94

Inv. nted by
[Signature]
 Recorded by

Date
 11-5-94



effect of buffer on turnover is not large compared to effect on primer degradation